

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/018396

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ B60K7/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ B60K7/00, F16D3/04, F16D3/62

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2002/083446 A1 (Bridgestone Corp.), 24 October, 2002 (24.10.02), Full text; Figs. 18 to 19 & US 2004/99455 A & EP 1380459 A1	1-6
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 74615/1973 (Laid-open No. 20954/1975) (Mitsubishi Electric Corp.), 10 March, 1975 (10.03.75), Full text; Figs. 1 to 3 (Family: none)	1-3, 6

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search
08 February, 2005 (08.02.05)

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Name and mailing address of the ISA/
Japanese Patent Office

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 7-279987 A (Nippon Piston Ring Co., Ltd.), 27 October, 1995 (27.10.95), Full text; Figs. 1 to 8 (Family: none)	1, 2
Y	CD-ROM of the specification and drawings annexed to the request of Japanese Utility Model Application No. 13166/1992 (Laid-open No. 64537/1993) (Toyo Tire and Rubber Co., Ltd.), 27 August, 1993 (27.08.93), Full text; Figs. 1 to 2 (Family: none)	4
Y	JP 8-145068 A (Nippon Piston Ring Co., Ltd.), 04 June, 1996 (04.06.96), Full text; Figs. 1 to 8 (Family: none)	5
Y	JP 4-219526 A (Nippon Piston Ring Co., Ltd.), 10 August, 1992 (10.08.92), Full text; Figs. 1 to 6 (Family: none)	6
A	JP 4-88210 A (Nippon Piston Ring Co., Ltd.), 23 March, 1992 (23.03.92), Full text; Figs. 1 to 9 (Family: none)	1-6
A	JP 4-151019 A (Ricoh Co., Ltd.), 25 May, 1992 (25.05.92), Full text; Figs. 1 to 2 (Family: none)	1-6
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 146636/1989 (Laid-open No. 84422/1991) (Ricoh Co., Ltd.), 27 August, 1991 (27.08.91), Full text; Figs. 1 to 4 (Family: none)	1-6